

ABSTRACT

An object of the present invention is to provide a switch mechanism to be adopted in an air-conditioning system that may be operated manually, which allows a plurality of functions to be integrated therein and assures superior operability for the driver.

Manual switch mechanisms 1 and 3 are dial type mechanisms each comprising at least a tubular dial component 4 with open ends on the two sides thereof, a first gear 5 that is fitted on the outside of the dial component 4 so as to rotate together with the dial component and includes gear teeth 5a formed at the outer circumferential side surface thereof and a second gear 6 that includes gear teeth 6a formed at a circular arc circumferential surface thereof to which the rotation of the dial component 4 is transmitted from the first gear 5 via a relay component 7 and is connected through a wire 20 to drive an air-conditioning door. Inside the dial component 4, a push-button switch mechanism that includes at least a sliding component 8 that is slidably housed along the axis of the dial component 4 and includes a push portion 11 located at the bottom thereof and substrate having a switch portion 10 to contact the push portion 11, is fitted within the dial component 4.